



SEQUENCE LISTING

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Wong-Staal, Flossie

<120> siRNA Libraries Optimized for Predetermined
Protein Families

<130> 016556-003610US

<140> US 10/776,399

<141> 2004-02-10

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<170> PatentIn version 2.1

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 tyrosine kinase family portion of catalytic domain

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<210> 94
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tyrosine kinase family portion of catalytic domain

<400> 96
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<210> 97
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<210> 98
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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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<210> 114
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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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<210> 119
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tyrosine kinase family portion of catalytic domain

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<220>
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tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 <210> 123
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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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<210> 153
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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

<400> 172
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<210> 173
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 tyrosine kinase family portion of catalytic domain

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<210> 174
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 tyrosine kinase family portion of catalytic domain

<400> 174
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<210> 175
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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

 <400> 178
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 tyrosine kinase family portion of catalytic domain

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 tyrosine kinase family portion of catalytic domain

<400> 185
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<210> 186
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 186
 Met His Phe Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Ser
 1 5 10 15

<210> 187
 <211> 48
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 187
 aacaagtttg tgcaccgaga tctagcagcc cgcaactgca tgggtgtcc 48

<210> 188
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<220>
<223> Description of Artificial Sequence:variant 5
tyrosine kinase family portion of catalytic domain

<400> 188
Asn Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys Met Val Ser
1 5 10 15

<210> 189
<211> 48
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 189
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<210> 190
<211> 16
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 190
Asn Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys Met Val Ala
1 5 10 15

<210> 191
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 191
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<210> 192
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 192
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1 5 10 15

<210> 193
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 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 193
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 <210> 194
 <211> 16
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 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 194
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 1 5 10 15

 <210> 195
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 195
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 <210> 196
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 196
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 1 5 10 15

 <210> 197
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 197
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<210> 198
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 198
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 1 5 10 15

<210> 199
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<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 199
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<210> 200
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 200
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 1 5 10 15

<210> 201
 <211> 48
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<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 201
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<210> 202
 <211> 16
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 202
 Met Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Ile Asn
 1 5 10 15

<210> 203
 <211> 48
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 203
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<210> 204
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 204
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<210> 205
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 205
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<210> 206
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 <212> PRT
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 206
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 1 5 10 15

<210> 207
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
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 tyrosine kinase family portion of catalytic domain

<400> 207
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<210> 208
 <211> 16
 <212> PRT
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 208
 Met Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Ile Asn
 1 5 10 15

<210> 209
 <211> 48
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<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 209
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<210> 210
 <211> 16
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<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 210
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 1 5 10 15

<210> 211
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 211
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 <210> 212
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 212
 Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Gly
 1 5 10 15

 <210> 213
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 213
 aagtgtctgca tccaccggga cctggctgct cggaactgcc tggtgaca 48

 <210> 214
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 214
 Lys Cys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Thr
 1 5 10 15

 <210> 215
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 215
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 <210> 216
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 216
 Met Ser Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Asn
 1 5 10 15

 <210> 217
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 217
 atgagctacg tccaccgaga cctggctgct cgcaacatcc tagtcaac 48

 <210> 218
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 218
 Met Ser Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Asn
 1 5 10 15

 <210> 219
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

 <400> 219
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<210> 220
<211> 16
<212> PRT
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<220>
<223> Description of Artificial Sequence:variant 5
tyrosine kinase family portion of catalytic domain

<400> 220
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1 5 10 15

<210> 221
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:variant 5
tyrosine kinase family portion of catalytic domain

<400> 221
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<210> 222
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:variant 5
tyrosine kinase family portion of catalytic domain

<400> 222
Met Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Asn
1 5 10 15

<210> 223
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:variant 5
tyrosine kinase family portion of catalytic domain

<400> 223
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<210> 224
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<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 224
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 1 5 10 15

<210> 225
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 225
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<210> 226
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 226
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 1 5 10 15

<210> 227
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 227
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<210> 228
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 228
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 1 5 10 15

<210> 229
<211> 48
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 229
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48

<210> 230
<211> 16
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 230
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1 5 10 15

<210> 231
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 231
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48

<210> 232
<211> 16
<212> PRT
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<220>
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tyrosine kinase family portion of catalytic domain

<400> 232
Lys Arg Phe Ile His Arg Asp Leu Ala Ala Arg Asn Leu Leu Leu Ala
1 5 10 15

<210> 233
<211> 48
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<220>
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 tyrosine kinase family portion of catalytic domain

 <400> 233
 aagaactttg tgcaccgtga cctggcggcc cgcaacgtcc tgctgggt 48

<210> 234
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 234
 Lys Asn Phe Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Val
 1 5 10 15

<210> 235
 <211> 48
 <212> DNA
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 235
 aagaactttg tgcaccgtga cctggcggcc cgcaacgtcc tgctgggt 48

<210> 236
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 236
 Lys Asn Phe Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Val
 1 5 10 15

<210> 237
 <211> 48
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 237
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<210> 238
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 238
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 1 5 10 15

<210> 239
 <211> 48
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 239
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<210> 240
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 240
 Gln Asn Tyr Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Gly
 1 5 10 15

<210> 241
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
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 tyrosine kinase family portion of catalytic domain

<400> 241
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<210> 242
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 242
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 1 5 10 15

<210> 243
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 243
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<210> 244
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 244
 Arg Asn Tyr Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Gly
 1 5 10 15

<210> 245
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 tyrosine kinase family portion of catalytic domain

<400> 245
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<210> 246
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 246
 Lys Asn Phe Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Gly
 1 5 10 15

<210> 247
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 tyrosine kinase family portion of catalytic domain

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 aacagcttca tccacagaga tctggctgcc agaaattgtc tagtaagt 48

 <210> 248
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 248
 Asn Ser Phe Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Ser
 1 5 10 15

 <210> 249
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 249
 aatggctata ttcataggga tttggcggca aggaattggtt tggtcagt 48

 <210> 250
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 250
 Asn Gly Tyr Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Ser
 1 5 10 15

 <210> 251
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 <212> DNA
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<220>
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 tyrosine kinase family portion of catalytic domain

 <400> 251
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 <210> 252
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 252
 Ala Cys Val Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Gly
 1 5 10 15

 <210> 253
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 253
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 <210> 254
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 254
 His Gln Phe Ile His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Asp
 1 5 10 15

 <210> 255
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 <213> Artificial Sequence

 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 255
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<210> 256
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 <220>
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 tyrosine kinase family portion of catalytic domain

 <400> 256
 Lys Gln Phe Leu His Arg Asp Leu Ala Ala Arg Asn Cys Leu Val Asn
 1 5 10 15

<210> 257
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 5
 tyrosine kinase family portion of catalytic domain

<400> 257
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<210> 258
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 258
 His Asn Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Asn
 1 5 10 15

<210> 259
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 6
 tyrosine kinase family portion of catalytic domain

<400> 259
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<210> 260
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 6
 tyrosine kinase family portion of catalytic domain

<400> 260
 Arg Glu Val Ile His Lys Asp Leu Ala Ala Arg Asn Cys Val Ile Asp
 1 5 10 15

<210> 261
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
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 tyrosine kinase family portion of catalytic domain

<400> 261
 aaccgcttttg tgcataagga cttggctgcg cgtaactgcc tggtcagt 48

<210> 262
 <211> 16
 <212> PRT
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 262
 Asn Arg Phe Val His Lys Asp Leu Ala Ala Arg Asn Cys Leu Val Ser
 1 5 10 15

<210> 263
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 6
 tyrosine kinase family portion of catalytic domain

<400> 263
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<210> 264
 <211> 16
 <212> PRT
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<220>
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 tyrosine kinase family portion of catalytic domain

<400> 264
 His Phe Phe Val His Lys Asp Leu Ala Ala Arg Asn Ile Leu Ile Gly
 1 5 10 15

<210> 265
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 7
 tyrosine kinase family portion of catalytic domain

 <400> 265
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 <210> 266
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 7
 tyrosine kinase family portion of catalytic domain

 <400> 266
 Asn His Phe Ile His Arg Asp Ile Ala Ala Arg Asn Cys Leu Leu Ser
 1 5 10 15

 <210> 267
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 7
 tyrosine kinase family portion of catalytic domain

 <400> 267
 aaccacttca tccaccgaga cattgctgcc agaaactgcc tcttgacc 48

 <210> 268
 <211> 16
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:variant 7
 tyrosine kinase family portion of catalytic domain

 <400> 268
 Asn His Phe Ile His Arg Asp Ile Ala Ala Arg Asn Cys Leu Leu Thr
 1 5 10 15

 <210> 269
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 1
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 269
 ncaggacgac aaaaagacht gygarggstg yaargghctt tttaggcttt tcgg 54

<210> 270
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 2
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<220>
 <221> modified_base
 <222> (37)..(37)
 <223> n = g, a, c or t

<400> 270
 ncaggacgac aaaaagwsyt gygarggbtg caarggnctt tttaggcttt tcgg 54

<210> 271
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 3
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 271
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<210> 272
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 4
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 272
 ncaggacgac aaaaagcctg cracggctgc wsmggycctt ttaggctttt cgg 53

<210> 273
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 5
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 273
 ncaggacgac aaaaagasct gtgayggstg caagggycctt ttaggctttt tcgg 54

<210> 274
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 6
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<220>
 <221> modified_base
 <222> (18)..(18)
 <223> n = g, a, c or t

<400> 274
 ncaggacgac aaaaagcntg ygarggvtgy aagggycctt ttaggctttt cgg 53

<210> 275
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 7
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<220>
 <221> modified_base
 <222> (19)..(19)
 <223> n = g, a, c or t

<400> 275
 ncaggacgac aaaaagacnt gtgarrgmtg caagggghctt tttaggcttt tcgg 54

<210> 276
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 8
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 276
 ncaggacgac aaaaagacht gtggvagctg yaargtyctt tttaggcttt tcgg 54

<210> 277
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:variant 9
 semi-randomized oligonucleotide for tyrosine
 kinase family portion of catalytic domain

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 277
 ncaggacgac aaaaagtcst gygargshtg yaargccttt ttaggccttt cgg 53

<210> 278
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:adapter
 oligonucleotide Univ-1(FseI)

<400> 278
 ctttttgtcg tcctggccgg 20

<210> 279
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:adapter
 oligonucleotide Univ-2(AscI)

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> n = c modified by 5' phosphate

<400> 279
 ngcgccgaaa agcctaataaa g 21

<210> 280
 <211> 569
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:humanU6/murine U6 opposing
 promoter cassette, human U6 and murine U6 promoters between
 TATA box and transcription start site modified to contain
 FseI and AscI restriction sites

<400> 280
 ggatccaagc ttaagggtcgg gcaggaagag ggcctatttc ccatgattcc ttcattatttg 60
 catatacgat acaaggctgt tagagagata attagaatta atttgactgt aaacacaaaag 120
 atatttagtac aaaatacgtg acgtagaaag taataatttc ttgggtagtt tgcagtttta 180
 aaattatggt ttaaaatgga ctatcatatg cttaccgtaa cttgaaagta tttcgatttc 240
 ttggctttat atatcggccg gcctcgaggc gcgccatatt tatagtctca aaacacacaa 300
 ttactttaca gttaggggtga gtttcctttt gtgctgtttt ttaaaataat aatttagtat 360
 ttgtatctct tatagaaatc caagcctatc atgtaaaatg tagctagtat taaaaagaac 420
 agattatctg tcttttatcg cacattaage ctctatagtt actaggaaat attatatgca 480
 aattaaccgg ggcaggggag tagccgagct tctcccacaa gtctgtgcga gggggccggc 540
 gcgggcctag agatggcggc gtcggatcc 569

<210> 281
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 consensus sequence (21 nt)

<220>
<221> modified_base
<222> (1)..(21)
<223> n = g, a, c or t

<400> 281
dyntgyrrnr sntgywvrb n

21

<210> 282
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 1
signature motif

<400> 282
His Arg Asp Leu Lys Ser Ser
1 5

<210> 283
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 2
signature motif

<220>
<221> MOD_RES
<222> (4)
<223> Xaa = Leu, Val or Ile

<220>
<221> MOD_RES
<222> (6)
<223> Xaa = Ala or Val

<400> 283
His Arg Asx Xaa Ala Xaa Arg
1 5

<210> 284
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 3
signature motif

<220>
<221> MOD_RES
<222> (6)
<223> Xaa = Ala or Ser

<400> 284
His Arg Asp Leu Arg Xaa Ala
1 / 5

<210> 285
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 4
signature motif

<220>
<221> MOD_RES
<222> (2)
<223> Xaa = Arg or Lys

<400> 285
His Xaa Asp Leu Ala Thr Arg
1 5

<210> 286
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 5
signature motif

<400> 286
His Arg Asp Leu Ala Ala Arg
1 5

<210> 287
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 6
signature motif

<400> 287
His Lys Asp Leu Ala Ala Arg
1 5

<210> 288
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 7
signature motif

<400> 288
His Arg Asp Ile Ala Ala Arg
1 5

<210> 289
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
consensus sequence (19 nt)

<220>
<221> modified_base
<222> (1)..(19)
<223> n = g, a, c or t

<400> 289
dyntgyrrnr sntgywvvr

19

<210> 290
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 1
consensus sequence

<400> 290
caccgsgacc tyaagtccag c

21

<210> 291
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:tyrosine kinase
family portion of catalytic domain variant 2
consensus sequence

<400> 291
caymgrracv tkgcgyscg d

21

<210> 292
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:tyrosine kinase
 family portion of catalytic domain variant 3
 consensus sequence

 <220>
 <221> modified_base
 <222> (9)
 <223> n = g, a, c or t

 <400> 292
 caymgngayc tbmgdkcdgc h 21

 <210> 293
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:tyrosine kinase
 family portion of catalytic domain variant 4
 consensus sequence

 <400> 293
 cacmrvgayy tvgchacvmg v 21

 <210> 294
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:tyrosine kinase
 family portion of catalytic domain variant 5
 consensus sequence

 <220>
 <221> modified_base
 <222> (1)..(21)
 <223> n = g, a, c or t

 <400> 294
 caymgngayy tngcngcnmg n 21

 <210> 295
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:tyrosine kinase
 family portion of catalytic domain variant 6
 consensus sequence

<400> 295
 cayaargacy tkgcwgcbmg b 21

<210> 296
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:tyrosine kinase
 family portion of catalytic domain variant 7
 consensus sequence

<400> 296
 cacmrgaya ttgcygccmg r 21

<210> 297
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 1 signature motif

<400> 297
 Thr Cys Glu Gly Cys Lys Gly
 1 5

<210> 298
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 1 consensus sequence

<400> 298
 achtgygarg gstgyaargg h 21

<210> 299
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 2 signature motif

<400> 299
 Ser Cys Glu Gly Cys Lys Gly
 1 5

<210> 300
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 2 consensus sequence

<220>
<221> modified_base
<222> (21)
<223> n = g, a, c or t

<400> 300
wsytgygarg gbtgcaargg n

21

<210> 301
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 3 signature motif

<400> 301
Thr Cys Glu Gly Cys Lys Ser
1 5

<210> 302
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 3 consensus sequence

<400> 302
acstgcgagg gctgcaarag y

21

<210> 303
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 4 signature motif

<400> 303
Ala Cys Asx Gly Cys Ser Gly
1 5

<210> 304
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 4 consensus sequence

 <400> 304
 gcctgcracg gctgcwsmgg y 21

 <210> 305
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 5 signature motif

 <220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = Thr or Ser

 <400> 305
 Xaa Cys Asp Gly Cys Lys Gly
 1 5

 <210> 306
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 5 consensus sequence

 <400> 306
 asctgtgayg gstgcaaggg y 21

 <210> 307
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:nuclear hormone
 receptor family zinc finger domain (ZnF_C4 domain)
 variant 6 signature motif

 <400> 307
 Ala Cys Glu Gly Cys Lys Gly
 1 5

<210> 308
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 6 consensus sequence

<220>
<221> modified_base
<222> (3)
<223> n = g, a, c or t

<400> 308
gcntgygarg gvtgyaaggg y

21

<210> 309
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 7 signature motif

<220>
<221> MOD_RES
<222> (4)
<223> Xaa = Gly or Ser

<400> 309
Thr Cys Glu Xaa Cys Lys Gly
1 5

<210> 310
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 7 consensus sequence

<220>
<221> modified_base
<222> (3)
<223> n = g, a, c or t

<400> 310
acntgtgarr gmtgcaaggg h

21

<210> 311
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 8 signature motif

<400> 311
Thr Cys Gly Ser Cys Lys Val
1 5

<210> 312
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 8 consensus sequence

<400> 312
achtgtggva gctgyaargt h

21

<210> 313
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 9 signature motif

<220>
<221> MOD_RES
<222> (4)
<223> Xaa = Ala or Gly

<400> 313
Ser Cys Glu Xaa Cys Lys Ala
1 5

<210> 314
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:nuclear hormone
receptor family zinc finger domain (ZnF_C4 domain)
variant 9 consensus sequence

<400> 314
tcstgygarg shtgyaargc c

21